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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/634,397	08/05/2003	Pedro J. Andres	21334	8470
151 75	90 12/06/2005		EXAMINER PRIEBE, SCOTT DAVID	
	-LA ROCHE INC.			
PATENT LAW DEPARTMENT 340 KINGSLAND STREET			ART UNIT	PAPER NUMBER
NUTLEY, NJ 07110			1633	

DATE MAILED: 12/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/634,397	ANDRES ET AL.
Office Action Summary	Examiner	Art Unit
	Scott D. Priebe, Ph.D.	1633
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period v  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).
Status		
<ol> <li>Responsive to communication(s) filed on <u>24 O</u></li> <li>This action is <b>FINAL</b>. 2b) This</li> <li>Since this application is in condition for alloware closed in accordance with the practice under E</li> </ol>	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1-61 is/are pending in the application. 4a) Of the above claim(s) 18-61 is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-17 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	n from consideration.	
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any accomplicated any accomplicated any accomplicated to the separate drawing sheet(s) including the correct and the separate of the separate and the separate of the separate	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No d in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 20031107, 20040116.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	(PTO-413) te atent Application (PTO-152)

#### **DETAILED ACTION**

#### Election/Restrictions

Applicant's election of Group I, claims 1-13 in the reply filed on 10/24/05 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Claim 13 was inadvertently omitted from group I in the Restriction requirement of 9/22/05. Also, as indicated in the requirement, claims 14-17 would be examined with the elected invention.

Claims 18-61 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to nonelected inventions, there being no allowable generic or linking claim.

Election was made without traverse in the reply filed on 10/24/05.

## Information Disclosure Statement

The PTO-1449 forms filed 11/7/03 and 1/16/04 are improper with respect to the citation of the non-patent documents because the citations did not include the titles as required (see MPEP 609, III.A.A(1).) These references have been considered, as indicated by the examiner's initials. However, the citations have been crossed out on the forms to indicate they will not be printed on the face of a patent. Should Applicant wish that these reference citations be printed on the face of a patent, Applicant should provide a corrected PTO-1449 containing complete bibliographic citations.

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#### Claim Objections

Claims 1, 7, 14, and 16 are objected to because of the following informalities. The abbreviation GPCR should be spelled out in the independent claims. Replacing "GPCR" in claims 1, 7, 14, and 16 with --G-protein coupled receptor (GPCR)-- would be remedial.

Appropriate correction is required.

### Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-3, 6-10, and 13-18 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for transgenic *Caenorhabditis* nematodes, does not reasonably provide enablement for transgenic nematodes of other species. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make the invention commensurate in scope with these claims.

The claims are broadly directed to transgenic nematodes of any species. The specification contemplate the use of any nematode, including parasitic or free-living nematodes, and specifically names the genera *Rhabditis* and *Caenorhabditis*. These two genera are classified in different subfamilies of the family Rhabditidae (see NCBI Taxonomy Browser, www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi). The specification provides guidance only for transformation of *Caenorhabditis* nematodes. The claims require a "promoter specific for sensory neurons," and the only such promoters identified in the specification are from *C*.

elegans. The Examiner could find no evidence that nematodes of any genera of Rhabditidae other than those of *Caenorhabditis* had been successfully transformed to produce a transgenic nematode, much less transgenic nematodes with sensory neuron specific expression of the transgene. Britton et al. (Mol. Biochem. Parasitol. 103: 171-181, 1999) disclosed that no transformation system is available for parasitic nematodes.

Therefore, in view of the lack of guidance on the materials and procedures necessary for producing the required nematodes of any genus other than of *Caenorhabditis* and the apparent lack of such guidance in the prior art, one of skill in the art would be required to develop transformation systems *de novo* in order to practice the claimed invention throughout its broad scope. Such unguided experimentation would clearly require inventive effort and is undue. Limiting all claims to *Caenorhabditis* nematodes, as in claims 4, 5, 11, and 12 would be remedial.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Livi et al., ER 1192856.

Livi discloses transgenic *C. elegans*, and methods of making them, that express a human seven transmembrane receptor, i.e. a class of GPCR, and optionally an accessory protein such as a G-protein, in sensory neurons, being operably linked to either a pan-neuronal promoter or a

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promoter specific to sensory neurons, e.g. a promoter of the *C. elegans gpa-11 or gcy-5* genes. The GPCRs described include those that bind odorants, and the transgenic nematodes have altered behavior in chemorepulsion and chemoattraction. See entire document, for example paragraphs 0007, 0012-0017, 0022-0024, claims 4 and 5.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott D. Priebe, Ph.D. whose telephone number is (571) 272-0733. The examiner can normally be reached on M-F, 8:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Nguyen can be reached on (571) 272-0731. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Scott D. Priebe, Ph.D. Primary Examiner

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